



1141025 - R8 SDMS

August 10, 2009

Sent via email

Eric Johnson  
U.S. Environmental Protection Agency  
Region 8, 8ENF-T  
999 18<sup>th</sup> Street, Suite 300  
Denver, Colorado 80202-2466

RE: Progress report for July 2009 activities - Hecla Mining Company Apex Site  
(EPA ID No. UT982589848, Docket No. RCRA-8-99-06)

Dear Mr. Johnson:

Per paragraph 64 of the Order, enclosed is a copy of the July 2009 progress report for your records.

If you have any questions please do not hesitate to call me at (208) 769-4112 or e-mail at [pglader@hecla-mining.com](mailto:pglader@hecla-mining.com).

Sincerely,

A handwritten signature in black ink, appearing to read "P. Glader".

Paul L. Glader  
Manager Environmental Services

Encl

Cc: HMC Legal Dept (w/o attachments)  
John Jacus, Esq. (DG&S)



**August 10, 2009**

Sent via U.S. Mail

**Glenn Rogers, Chairman.  
Shivwits Band of Paiute Indian Tribe  
6060 West 3650 North  
Ivins, Utah 84738**

**John Krause  
Bureau of Indian Affairs  
400 North 5<sup>th</sup> Street, Floor 12  
Phoenix, AZ 85004**

**Kelly Youngbear  
BIA Southern Paiute Agency  
P.O. Box 720  
St. George, UT 84771**

**RE: Progress report for July 2009 activities - Hecla Mining Company Apex Site  
(EPA ID No. UT982589848, Docket No. RCRA-8-99-06)**

**Dear Chairman Rogers, Mr. Krause and Ms. Youngbear:**

**Per paragraph 64 of the Order, enclosed is a copy of the July 2009 progress report  
for your records.**

**If you have any questions please do not hesitate to call me at (208) 769-4112 or e-  
mail at [pglader@hecla-mining.com](mailto:pglader@hecla-mining.com).**

**Sincerely,**

A handwritten signature in black ink, appearing to read "P. Glader", written over a horizontal line.

**Paul L. Glader  
Manager Environmental Services**

**Encl**

**Cc: HMC Legal Dept. (w/o attachments)  
John Jacus, Esq. (DG&S) (w/o attachments)  
Eric Johnson (USEPA, Region VIII) (w/o attachments)**



August 10, 2009

**MEMORANDUM TO:** Apex File  
**COPIES TO:** distribution  
**FROM:** Paul Glader  
**SUBJECT:** Progress Report No. 63 for period ending July 31, 2009;  
Pond 2 Final Closure - Apex Site, Washington County, Utah

---

**Summary**

The monthly visual inspection, per the long term monitoring plan, was conducted on July 13. No unusual conditions were noted.

**Geotechnical Monitoring**

Based on the data showing that the facility has experienced consistently low settlement rates over the past three years, Hecla will continue to monitor the facility, however with survey data being collected on an annual basis.

**Work Planned for Next Period**

Visual inspection of site

**Cost and Schedule**

Committed costs in July 2009 were \$182. Total project to date committed cost is approximately \$1,474,000.

**Supplemental Attachments**

July 2009 site inspection report

July 2009 cost report

# Annual Site Inspection Summary Sheet - Apex Site - Pond 2

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

## Form 1 of 4 - Summary

Date: <u>7-13-07</u>			
Inspector: <u>Doug Thomas</u>			
Cover System Component	Potential Problem		Limits Potentially Exceeded
Site Perimeter	Erosion or Fencing Issues		NA
Cover System (outslopes, top, rock)	Subsidence		Minor: ponding < 1" some gullying / erosion Yes <input checked="" type="checkbox"/> * No <input type="checkbox"/>
			Significant: see Table 2 Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Embankment Slope Stability		excessive movement or surface cracks > than 1" Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Gullying	on top	depth > 1" Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
		at embankment crest or on outslope	depth > 2" Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
		w/in normal flow channel in diversion channel	no gullying allowed Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
		w/in diversions at toe of impoundment outslope	no gullying allowed Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
		in diversion channel at any other location	NA NA
	Erosion Protection Stability		rock subsiding or missing Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Seepage		no colored seepage allowed (red, blue, yellow w/ crystallization) Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
Runoff Control System	Diversion Channel		rock in place, channel not moving, fence stable Yes <input checked="" type="checkbox"/> * No <input type="checkbox"/>
	Diversion Swales		rock in place, no silting in or head cutting Yes <input checked="" type="checkbox"/> * No <input type="checkbox"/>
	Excessive silt build up at fence lines in diversion channel		allowed if not effecting cover system Yes <input checked="" type="checkbox"/> * No <input type="checkbox"/>

\* Mark all areas of concern or requiring repairs on attached site map.

**Annual Site Inspection - Apex Site - Pond 2**

**Hecia Mining Company - Long-Term Maintenance and Monitoring Plan**

**Form 2 of 4 - Site Perimeter**

Inspection Date: <u>7-13-01</u>	
Inspector: <u>J. [Signature]</u>	
<b>Visible Outlying Areas</b>	
Observed Condition:	<u>No change in outlying areas.</u>
Observed Damage:	<u>NONE</u>
May require repair: Yes <input type="checkbox"/> * No <input type="checkbox"/>	
<b>Property Boundary Fence and Gate (walk fence line)</b>	
Observed Condition:	<u>Fence and Sign in good Repair</u>
Observed Damage:	<u>NONE</u>
Potential Corrective Actions:	<u>NONE</u>
May require repair: Yes <input type="checkbox"/> * No <input type="checkbox"/>	
<b>All Upgradient Areas (areas that drain onto property)</b>	
Observed Condition:	<u>Upgradient areas look the same.</u>
Observed Damage:	<u>NONE</u>
May require repair: Yes <input type="checkbox"/> * No <input type="checkbox"/>	

\* Mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

**Form 3 of 4 - Impoundment**

Inspection Date: <u>7-13-09</u>			
Inspector: <u>D. [Signature]</u>			
<b>Outslopes</b>			
Observed Performance:	Rock Cover Subsidence:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Excessive Slope Movement (failure):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Gully Development:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Observable Leachate (colored):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Excessive Siltation (at slope toe):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
Observed Damage: <u>NONE</u>			
Potential Corrective Actions: <u>NONE</u>			
<b>Top (top surface soils)</b>			
Observed Performance:	Cracking (>1" width):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Settlement / Evidence of Ponding:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Erosion / Gullyng:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
Observed Damage: <u>NONE</u>			
Potential Corrective Actions: <u>NONE</u> <i>There are quite a few weeds growing on top of pond this summer. I don't think it was any of the planted seeds.</i>			
<b>Erosion Protection Layer (rock)</b>			
Observed Performance:	Rock Staying in Place:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Rock Subsiding:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Missing Rock:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
Observed Damage: <u>NONE</u>			
Potential Corrective Actions: <u>NONE</u>			

Mark all areas of concern or requiring repairs on attached site map.

**Annual Site Inspection - Apex Site - Pond 2**

**Hecla Mining Company - Long-Term Maintenance and Monitoring Plan**

**Form 4 of 4 - Diversion Channel and Swales**

Date: <u>7-13-09</u>			
Inspector: <u>D. J. [Signature]</u>			
<b>Diversion Channel</b>			
Observed Performance:	Erosion Protection in place:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Normal Flow Channel in place:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Encroaching on Site Fencing:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
Observed Damage:	<u>NONE</u>		
Potential Corrective Actions:	<u>NONE</u>		
<b>Diversion Swales</b>			
Observed Performance:	Erosion Protection in place:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Flow Channel Silting In:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Head Cutting:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
Observed Damage:	<u>NONE</u>		
Potential Corrective Actions:	<u>NONE</u>		

Mark all areas of concern or requiring repairs on attached site map.

Activity	2004 Budget	Revised Budget May 2004	Committed Cost this Period	Cumulative Committed Cost To Date 7-31-09	Forecasted Cost To Complete	Forecasted Final Cost	Remarks on Forecast to Complete
<b>Phases I through III</b> <i>(Completed February 2006)</i>							
Phase I - Drain Excess Liquid From Tailings	189,200	72,700		67,928	0	67,928	
Phases II, IIA + IIB - Evaporate Excess Liquid	6,000	8,000		242,882	0	242,882	
Phase III - Regrading & Final Cover System	337,000	342,050		504,742	0	504,742	
Field Indirect Costs	164,500	213,568		378,517	0	378,517	Includes Jan + Feb 2006 long term monitoring costs
Hecla Costs	18,700	18,700	0	33,324	0	33,324	
<b>Subtotal Phases I through III</b>	<b>715,400</b>	<b>655,018</b>	<b>0</b>	<b>1,227,393</b>	<b>0</b>	<b>1,227,393</b>	
<b>Long Term Monitoring</b> <i>(through FY 2010)</i>							
Site Inspections			182	189,463	2,610	192,073	
Settlement Monitoring			0	8,100	2,325	10,425	
<u>Consultant Support:</u>							
Annual Geotechnical Engineer Inspections				2,495	18,100	20,595	Includes settlement monitoring data analysis
Vegetation Monitoring			0	0	20,000	20,000	Allowance for surveys in FY 2008 - 2010
Site Conditions Review - MEI			0	7,414	2,367	9,801	
Site Conditions Review - SVL Analytical			0	2,079		2,079	
Erosion Repair Review - MEI				2,927	573	3,500	
Revegetation Review - Bamberg					3,500	3,500	
<u>Maintenance:</u>							
Erosion Repair Allowance				21,941	7,500	29,441	Erosion repair conducted April 2008
Revegetation Allowance				9,912	10,000	19,912	Revegetation conducted April 2008
<u>Hecla Project Management Costs:</u>							
Labor			0	2,266	7,909	10,175	
Travel expenses			0	0	1,312	1,312	
<b>Subtotal Long Term Monitoring</b>	<b>0</b>	<b>0</b>	<b>182</b>	<b>246,597</b>	<b>76,216</b>	<b>322,813</b>	
<b>Total Pond 2 Final Closure</b>	<b>715,400</b>	<b>655,018</b>	<b>182</b>	<b>1,473,990</b>	<b>76,216</b>	<b>1,550,206</b>	



**Fw: Apex - July Monthly Report**  
**Eric Johnson to: Amy Swanson**

08/13/2009 08:53 AM

----- Forwarded by Eric Johnson/R8/USEPA/US on 08/13/2009 08:52 AM -----



**Paul Glader**  
<pglader@hecla-mining.com  
>

08/11/2009 04:24 PM

To Eric Johnson/R8/USEPA/US@EPA

cc

Subject Apex - July Monthly Report



Apex Pond 2 - progress rpt 63 complete, july 2009 .pdf